



Sheet 1 of 4

Form PTO-1449 (REV. 8-83) US Dept. of Commerce PATENT & TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)			ATTY DOCKET NO. 110108.01		APPLICATION NO. Rule 53(b) Divisional of Application No. 09/904,875	
			APPLICANT(S) Takamitsu ASANUMA et al.			
			FILING DATE April 22, 2004	PRIOR GROUP 3748		
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
TMN		5,100,632	03-31-1992	Dettling et al.		
		4,902,487	02-20-1990	Cooper et al.		
		6,588,204	7/8/2003	HIROTA et al.		
↓		6,568,178	5/27/2003	HIROTA et al.		↓
TMN		09/979,643	11/26/2001	NAKATANI et al.		
FOREIGN PATENT DOCUMENTS						
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS
TMN		JP 7-106290 B2	11-15-1995	Japan		
		JP 3012249 B2	12-10-1999	Japan		
		JP 2000-18026 A	01-18-2000	Japan		
		JP 9-94434 A	04-08-1997	Japan		
↓		JP 6-159037 A	06-07-1994	Japan		
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)						
EXAMINER <i>Tu M. Nguyen</i>			DATE CONSIDERED <i>6/12/05</i>			
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.						

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FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY		CLASS	SUB CLASS
TMN		JP 6-272541 A	09-27-1994	Japan			
		JP 11-300165 A	11-02-1999	Japan			
		59-30507	2/25/84	JAPAN			
		WO 00/42302	7/20/00	WIPO			
		EP 0 984 142 A1	8/3/00	EUROPEAN			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
EXAMINER <i>Tu M. Nguyen</i>			DATE CONSIDERED <i>6/12/05</i>				
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U.S. PATENT DOCUMENTS						
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
FOREIGN PATENT DOCUMENTS						
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS
TMN		04031614 A	3/2/92	JAPAN		
		07180536 A	7/18/95	JAPAN		
		60-235620	11/22/85	JAPAN		
		05354427 (abstract)	7/28/95	JAPAN		
		02070389 (abstract)	12/3/91	JAPAN		
		55050255 (abstract)	11/18/81	JAPAN		
		03344731 (abstract)	7/20/93	JAPAN		
		5-98932	4/20/93	JAPAN		
		61-28709	8/2/86	JAPAN		
		58-137423	8/15/83	JAPAN		
		11-336534	12/7/99	JAPAN		
		10-306717	11/17/98	JAPAN		
		10-220218	8/18/98	JAPAN		
		8-338229	12/24/96	JAPAN		
		7-189656	7/28/95	JAPAN		
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)						
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FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY		CLASS	SUB CLASS
TMN		7-119444	5/1995	Japan (w/Abstract & English-translation)			
TMN		4-129829	4/1992	Japan (w/Abstract only)			
TMN		63-100218	5/1988	Japan (w/Abstract only)			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
EXAMINER				DATE CONSIDERED			
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